

CLAIM LISTING

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A method for classifying an audio signal, the method comprising:

receiving an audio signal to be classified at a circuit;

analyzing selected audio frequency components, wherein selecting audio frequency components comprises selecting audio frequency components having a frequency less than a predetermined frequency in the audible range;

recording a result of analysis of the selected audio frequency components;

comparing the recorded result of analysis to a threshold value; and

classifying the audio signal based upon comparison of the recorded result of analysis and the threshold value.

2. (Previously Presented) The method according to claim 1, wherein classifying the audio signal based upon comparison of the recorded result of analysis and the threshold value further comprises:

if the recorded result of analysis is greater than the threshold value, then the audio signal is determined to be music; and

if the recorded result of analysis is less than the threshold value, then the audio signal is determined to be speech.

3. (Previously Presented) The method according to claim 1, wherein analyzing the selected audio frequency components comprises transforming the selected audio frequency components to the time domain and counting zero point transitions of the selected audio frequency components transformed to the time domain.

4. (Previously Presented) The method according to claim 1, wherein recording a result of analysis of the selected audio frequency components comprises transforming the selected audio frequency components to the time domain and recording a count value of a number of zero point transitions of the selected audio frequency components.

5. (Previously Presented) The method according to claim 1, further comprising selecting audio frequency components prior to analyzing selected audio frequency components, wherein said selecting audio frequency components comprises passing the audio signal through a low pass filter for filtering out audio frequency components having a frequency greater than a predetermined frequency thereby reducing an amount of audio information to be analyzed.

6-8. (Canceled)

9. (Previously Presented) The method according to claim 1, wherein classifying the audio signal occurs at a transmitting end of an audio transmission system.

10. (Previously Presented) The method according to claim 1, wherein classifying the audio signal occurs at a receiving end of an audio transmission system.

11. (Previously Presented) The method according to claim 1, wherein the audio signal is one of an analog signal and a digital signal.

12. (Previously Presented) The method according to claim 1, wherein the threshold value used in the comparison is pre-determined and pre-set by a user.

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13. (Previously Presented) The method according to claim 1, wherein the threshold value used in the comparison determined through trial and error of a plurality of iterations in a comparing device.

14. (Previously Presented) The method according to claim 1, wherein analyzing selected audio frequency components comprises counting zero point transitions of the audio signal for a predetermined period of time.

15. (Previously Presented) The method according to claim 1, further comprising:

converting the audio signal from an analog signal to a digital signal;
encoding the audio signal;
packetizing the audio signal;
transmitting the audio signal;
decoding the audio signal; and
processing the audio signal, wherein processing at least comprises one of storing the audio signal and playing the audio signal.

16-27. (Cancelled)

28. (New) The method according to claim 1, wherein the predetermined frequency is approximately 4K Hz.